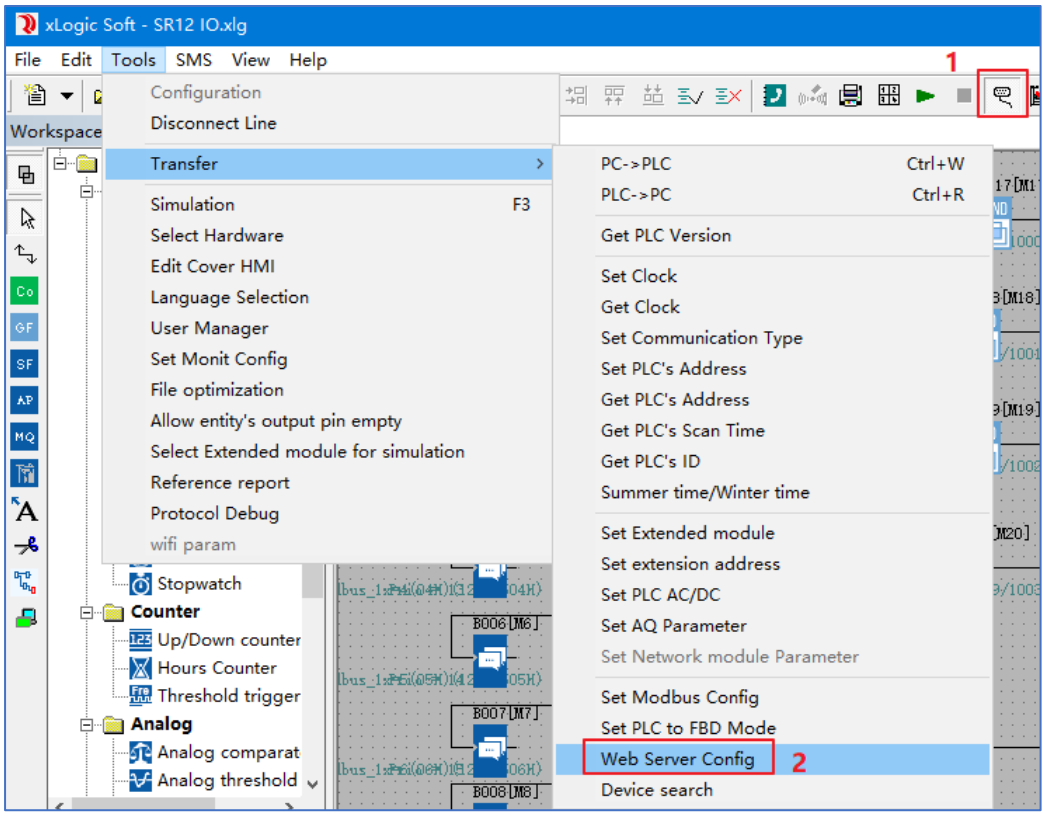
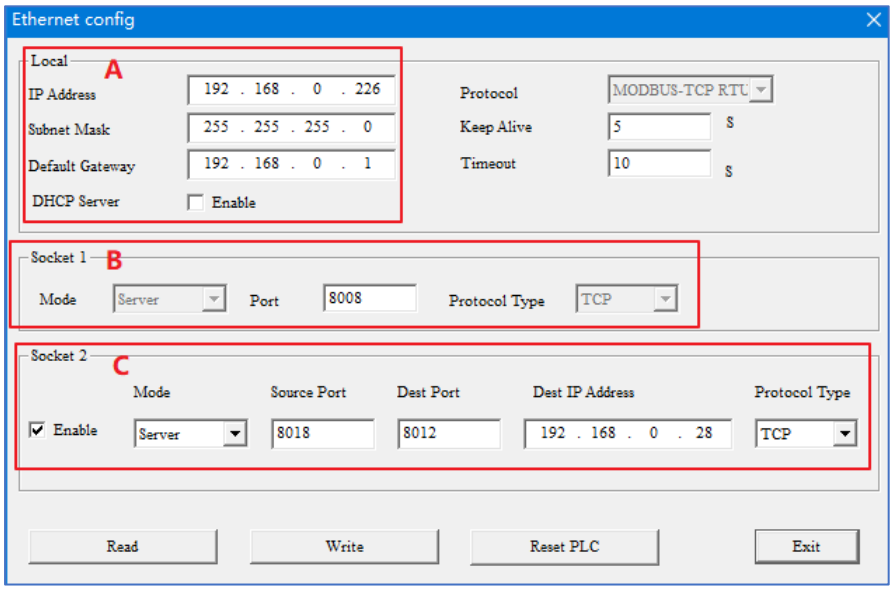
SR12 Ethernet parameter configuration description

SR12 PLC supports 2 TCP connections. In the first TCP connection (Socket 1), SR12 is fixedly used as the server. In the second TCP connection (Socket 2), SR12 can be used as a server or client. The detailed operation steps are as follows.

(1) Open the SR12 Ethernet parameter configuration window (Web Server Config), and follow the steps below:





Explain the main parameters in the above figure:

Area A:

Set the PLC's IP, Subnet Mask, and Gataway parameters here. If you check 'Enable' of the 'DHCP Server' option, the above settings will be invalid and they will automatically obtain a new IP, Subnet Mask, and Gataway from the router.

It should be noted that when using the firmware update package to update the firmware, it is forbidden to check the "DHCP Server" option, otherwise the update will fail.

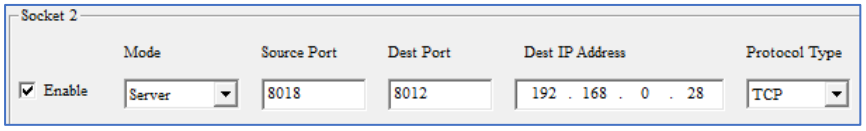
Keep the default values for 'Keep Alive' and 'Timeout'.

Area B - Socket 1:

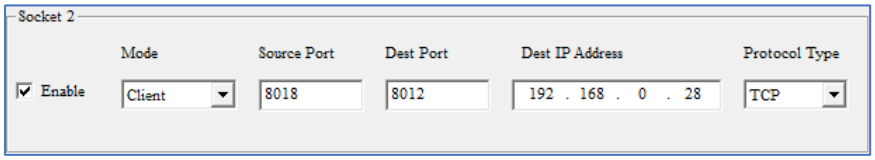
Set the server port of SR12 in the first TCP connection. Here, SR12 can only be used as a server.

Area C - Socket 2:

SR12 can be selected to be used as server or client through the options here. It should be noted that the 'Source Port' will be used regardless of the mode in which SR12 works, so its value cannot be the same as the port value in 'Socket 1'.



When 'Mode' is set to 'Server', only 'Source Port' is used. The value of 'Source Port' is the server port.



When 'Mode' is set to 'client', 'Source Port', 'Dest Port', and 'Dest IP Address' will be used. 'Dest Port' and 'Dest IP Address' are the server IP and server port of the other device (Server) to be connected.

TCP is selected by default for 'Protocol Type'.

The 4 buttons below:

'Read' : Read the Ethernet parameters of the SR12 PLC. Usually when this window is opened, xlogic will read automatically, and it is necessary to ensure that xlogic and SR12 are connected normally.

'Write' : After modifying the parameters in this window, you need to click this button to write the new parameters into the SR12 PLC.

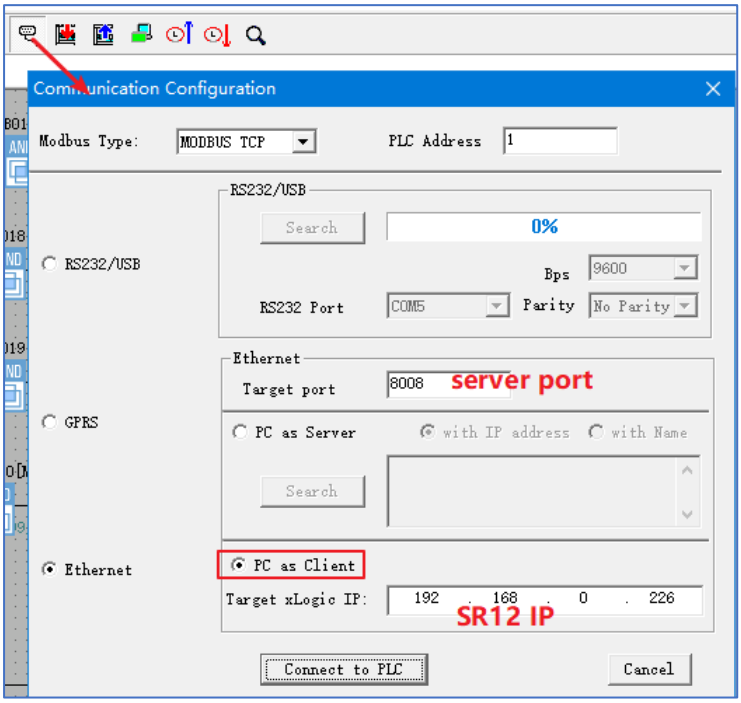
'Reset PLC' : After writing the new parameters into SR12, click this button to restart the PLC. The new parameters will take effect after the restart.

'Exit' : Exit this window to complete the Ethernet parameter modification operation.

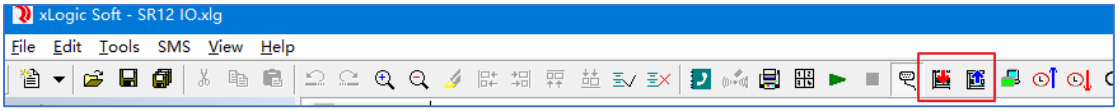
(2) Read and write SR12 program via Ethernet on xLogic

It should be noted that the PC where xlogic is installed needs to be in the same LAN as SR12. For example, the IP of PC is 192.168.0.28, and the IP of PLC is 192.168.0.226.

(a) When SR12 is used as a server,

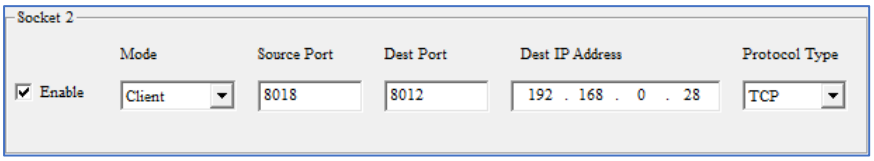


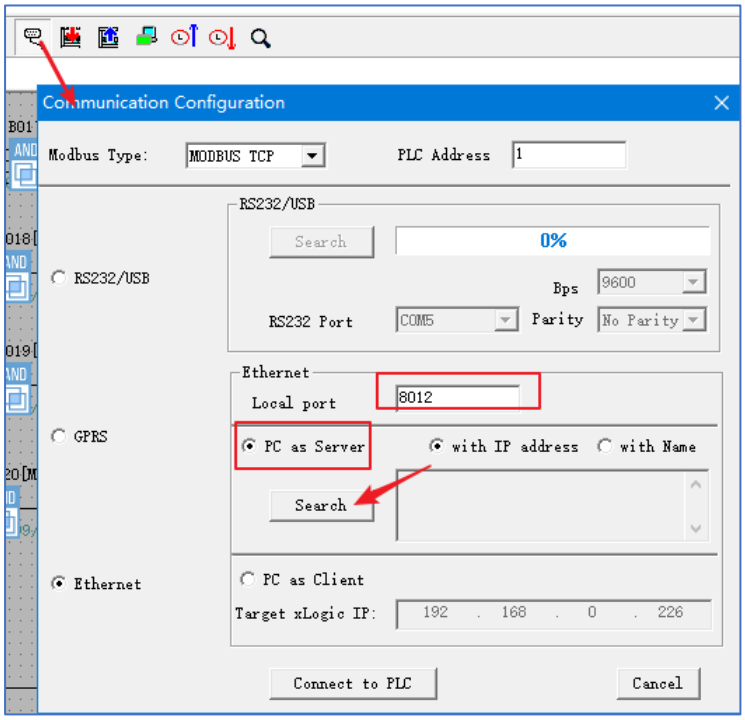
Then click the 'Connect to PLC' button.



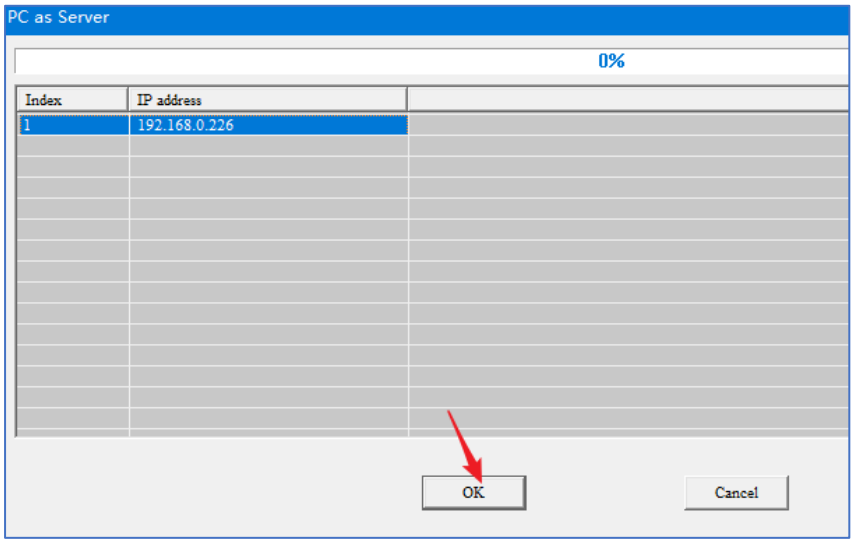
As shown above, the Download Program (xlogic→PLC) and Upload Program (PLC→xlogic) buttons are available.

(a) When SR12 is used as a client,

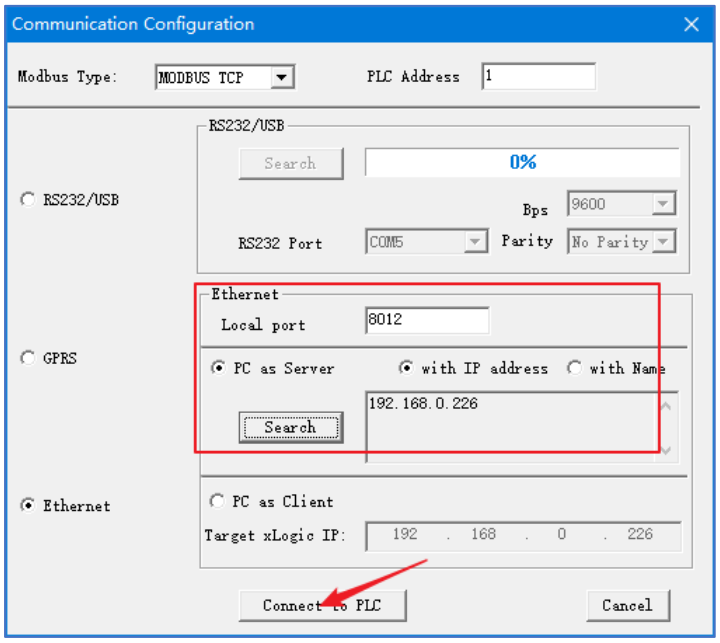




Click the 'Search' button, a search window pops up, wait for a while, and the PLC IP will appear in the list, as shown below:



Select the PLC IP and click 'OK'.



Then click the 'Connect to PLC' button.

Finally, it should be noted that the Ethernet connection of the SR12 PLC is a hardware connection and is not controlled by software. When the Ethernet parameters of both parties are successfully configured, as long as they are connected through the network cable and router, the PLC hardware will automatically connect to both parties. As long as the physical connection is not disconnected, the TCP connection will not be disconnected.

For example, when two SR12s have been configured the Ethernet parameters and physically connected, and want to achieve modbus TCP communication, even if the modbus block in the client program is not triggered, the TCP connection used between them still exists, and the third device/software can no longer use this TCP connection. You need to pay attention to this when using it, which is different from the PR series Ethernet.